

Purchase Order Receipt Listing

Wednesday, September 25, 2013 7:44:07 AM

All amounts are calculated in domestic currency.

All Vendors PO ID po21317 Receipt Dates from 9/25/2013 to 9/25/2013 All Line Item Types
 All Item ID/GL/WOS All Rec. Employees All Currencies
 Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID Req	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO21317	4		M6061T6B2.000X02. f		9/18/2013 9/25/2013		12.0000 ✓	\$12.15	0.0000	0	\$145.78
CAD	No	250	6061-T6 Bar 2.00 x f	2.25		1.0000 DESJ02		\$145.78	0.0000	0	
		m126981									
	6	M6061T6S.040	sf		9/18/2013 9/25/2013	192.0000 ✓		\$1.53	0.0000	0	\$294.41
	No	6061-T6 .040 Sheet	sf		192.0000 DESJ02			\$294.41	0.0000	0	
		m126981									
	7	M7075T6B1.750X04. f			9/18/2013 9/25/2013	24.0800 ✓		\$40.14	0.0000	0	\$966.66
	No	500	7075-T6 BAR 1.750" f	X 4.500"		24.0833 DESJ02		\$966.66	0.0000	0	
		m126981									
	8	M7075T6B4.000X4.5 f			9/18/2013 9/25/2013	8.0000 ✓		\$94.88	0.0000	0	\$759.00
	No	00	7075-T6 BAR 4.000" f	X 4.500"		8.0000 DESJ02		\$759.00	0.0000	0	
		m126981									
	9	M7075T6B5.000X1.0 f			9/18/2013 9/25/2013	60.2100 ✓		\$26.18	0.0000	0	\$1,576.55
	No	00	7075-T6 BAR 5.000" f	X 1.000"		60.2080 DESJ02		\$1,576.55	0.0000	0	
		m126981									
	10	M7075T6B6.000X6.0 f			9/18/2013 9/25/2013	24.1700		\$166.07	0.0000	0	\$4,013.98
	No	00	7075-T6 BAR 6.000" f	X 6.000" (order in billet)		24.1667 DESJ02		\$4,013.98	0.0000	0	
		m126981									

Yowbf

Receiving Report

Date:

13/3/05

Batch No:

M126981

Supplier:

JHY66entk

Dart P/O:

21317

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No N/A
 Shipment Complete: Yes No N/A
 QC6 Inspection N/A
 Work Order N/A
 N/A
 N/A

Discrepancies

Part Number	Description	Quantity ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

Production/Admin:

Date

Received/Costing

Initial

Location

BILL OF LADING

No: PEC 842293

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

Ship Date 23Sep13 at 16:24 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

BILL OF LADING

1) Our Order PEC-605632- 1 Your PO # 21317

ALUMINUM FLAT BAR 6061-T6511

2.00" x 2.25" X 144.0000"

Heat Number Tag No
201317570 219541Quantity PCS Wt LBS
12 FT MTR 64

2) Our Order PEC-605632- 2 Your PO # 21317

ALUMINUM SHEET 6061 T6

.0400 Nom X 48.0000" X 144.0000"

Heat Number Tag No
636516A7 219542Quantity PCS Wt LBS
192.00 SFT MTR 108

3) Our Order PEC-605632- 3 Your PO # 21317

Part # QQ-A- 250/12 PLATE

Rel #

ALUMINUM PLATE 7075-T651

1.750" THICK X 4.5000" X 144.5000"

Heat Number Tag No
422831 219543Quantity PCS Wt LBS
9.03 SFT MTR 248

4) Our Order PEC-605632- 4 Your PO # 21317

Part # QQ-A- 250/12 PLATE

Rel #

ALUMINUM PLATE 7075-T651

4.00" THICK X 4.5000" X 96.0000"

Heat Number Tag No
438561 219544Quantity PCS Wt LBS
3.00 SFT MTR 184

5) Our Order PEC-605632- 5 Your PO # 21317

Part # QQ-A- 250/12 PLATE

Rel #

ALUMINUM PLATE 7075-T651

1.00" THICK X 5.0000" X 144.5000"

Page: 1Continued

TOUDES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
MERCCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.1 crate ~~red~~ 116 ✓ 1 planche RSS4 ✓

1 skid pac flas ✓ 12a RSS3 ✓

1 pc RSS7 ✓

F6 ✓
Sony + Deauville

BILL OF LADING

No.: PEC 842293

Ship From:
THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 23Sep13 at 16:24 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

BILL OF LADING

Heat Number	Tag No	Quantity	PCS	Wt LBS
717842	219545	25.09 SFT	5	387

6) Our Order PEC-605632- 6 Your PO # 21317
ALUMINUM PLATE 7075-T651
 6.00" THICK X 6.0000" X 7.2500"

Heat Number	Tag No	Quantity	PCS	Wt LBS
718076	219546	12.08 SFT	40	1113

TOTAL:	Tags	PCS	LBS
	6	53	2104

MTR

ADD ON TO 605548 SUR-CHARGE ADDED

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL (1-6) 1 BAR, 2 SKIDS, 3 BDLS GW. 2350 LBS

CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT. *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER.

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**



BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	ITEM
Copper & Brass Sales, Inc. SHIP TO	200492	RB0404	8/29/2013	
Copper & Brass Sales, Inc.	CUSTOMER PO 5400194524	ALLOY/TEMPER 6061-T6511	SALESPERSON Ellis Williams	
Quantity Certified 835 lbs	CUSTOMER PART NUMBER AL REC0877	DESCRIPTION SCRB 2.000x2.250		

We hereby certify that the material covered by this report has been *inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.*

TESTS	LOT NO.	TEST DATE	ULTIMATE TENSILE STRENGTH (KSI)	YIELD STRENGTH (KSI)	PERCENT ELONGATION
1	201317570	8/24/13	min 47.90 max 47.90	min 46.30 max 46.30	min 17.40 max 17.40

GJL 13/09/28

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others Total	Melt Source:
080532	6061	0.74	0.34	0.30	0.12	0.88	0.08	0.10	0.02	97.42	0.05	0.15	United States of America

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

Print Date: 8/29/2013

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402698178

CstAr

CstOr 251921

Wgt.: 63.974 LB

Date 09/13/2013

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum
 Trentwood Works
 Spokane, WA 99215-5108
 (800) 367-2586

CUSTOMER PO NUMBER:		WORK PACKAGE:	CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:	
5400182101-20			ALFLR01644		HT Flat Sheet	
KAISER ORDER NUMBER:		LINE ITEM:	SHIP DATE:	ALLOY:	CLAD:	TEMPER:
1153837	2		07/03/2013	6061	BARE	T6
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:		GAUGE:	WIDTH:	LENGTH:
12764 LB	493 PCS EST.	2042987		0.0400 IN	48.000 IN	144.000 IN
SHIP TO:		SOLD TO:				
COPPER & BRASS SALES 905 CARLOW DRIVE UNIT D BOLINGBROOK, IL 60490 US		COPPER & BRASS SALES ATTN: ACCOUNTS PAYABLE P.O. Box 5116 SOUTHFIELD, MI 48086 US				

MHU 1689908: LOT 636516A7: 146 pieces
 MHU 1689909: LOT 636516A7: 146 pieces
 MHU 1689952: LOT 619986A3: 55 pieces
 MHU 1689953: LOT 619986A3: 72 pieces
 LOT 636516A7: 74 pieces

and 13/09/28

Certified Specifications

AMS 4027/RevN ASME SB 209/Rev2004 ASTM B 209/Rev10 CMMMP 019/RevD CMMMP 025/RevU

Test Code: 1511

Test Results:

LOT: 619986A3 CAST: 016 DROP: 53 INGOT: 1

Melted in USA
 (ASTM E8/B557)
 (EN 2002-1)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T6	LT / 02 (Min:Max)	46.9 : 46.9 (323 : 323)	39.4 : 39.7 (272 : 274)	13.3 : 13.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.72	0.5	0.31	0.07	1.1	0.20	0.10	0.02	0.01	0.00	TOT 0.04

LOT: 636516A7 CAST: 109 DROP: 18 INGOT: 2

Melted in USA
 (ASTM E8/B557)
 (EN 2002-1)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T6	LT / 02 (Min:Max)	47.5 : 47.9 (328 : 330)	40.6 : 40.9 (280 : 282)	12.9 : 13.9

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.74	0.5	0.29	0.07	1.0	0.19	0.11	0.02	0.01	0.00	TOT 0.04

Plant Serial: 4302481
 Kaiser Order Number: 1153837

Page 1 of 2

Line Item: 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402698994

CstAr CstOr 251921

Wgt.: 108.380 LB Date 09/14/2013



Beth in
Bettina

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum
Trentwood Works
Spokane, WA 99215-5108
(800) 367-2586

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	Tl	V	ZR	OTHER
6061	MIN	0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.00	MAX 0.05
	MAX	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	TOT 0.15

Aluminum Remainder

Miscellaneous Notes

6061 sheet or plate certified to AMS 4025, AMS 4026, or AMS 4027 also meets applicable requirements of AMS-QQ-A-250/11, Rev. A.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that metal shipped under this order was melted in the United States of America or a qualifying country per DFARS 223.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 232.225 for domestic content. This material has been inspected, tested and found in conformance with the requirements of the applicable specifications as indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. All metal which is solution heat treated complies with AMS 2777. Any warranty is limited to that shown or Kaiser's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of Kaiser Aluminum Fabricated Products, LLC laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law. ISO-9001:2000 certified.

JAMES HEMENWAY, LABORATORIES SUPERVISOR

Plant Serial: 4302481
Kaiser Order Number: 1153837

Line Item: 2

Page 2 of 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402698994

CstAr

CstOr 251921

Wgt.: 108.380 LB

Date 09/14/2013



3

CERTIFIED TEST REPORT
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR R02901 4075 INCLUSION SERIAL#: 20130701R02901 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM				Constellium ORDER NO.		CERTIFICATION								
5400182030				110-513141		<p>"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."</p> <p style="text-align: center;">Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA</p> <p><i>Rodney J. Feltz</i> Rodney J. Feltz - Laboratory Manager</p>								
ALLOY	CLAD.	TEMPER	GAUGE	WIDTH	LENGTH									
7075	00	T651	1.78000	60.500	144.500									
ITEM ORDERED														
MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL														
CUSTOMER SPECIFICATION														
AMS-QQ-A-250/12														
PART NUMBER	IB/L NUMBER		DATE SHIPPED											
ALFLR00996	R02900		07/01/13											
WEIGHT SHIPPED	NO. OF PIECES	GOVT. CONTRACT NO.												
9,915	6													

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS									
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX								
422831	LT	2	**** T651	78.3	79.8	67.4	69.1	****	13.0	14.5								
All material contained in lot 422831 was cast and manufactured in the USA.																		
422841	LT	2	80.1	80.4	69.0	69.0	14.0	14.0										
All material contained in lot 422841 was cast and manufactured in the USA.																		
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																		
ASTM B209-10, AMS 4045K																		
<i>John J. Gambetti 13/09/28</i>																		
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH TOTAL MAX.
SEE ACTUAL CHEMICAL COMPOSITION											ALUMINUM REMAINDER							

P-860-156D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402702509

CstAr CstOr 251921

Wgt.: 248.000 LB Date 09/18/2013



CERTIFIED TEST REPORT
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN
46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI
48086

COPPER&BR R02901 4075 INCLUSION SERIAL#: 20130701R02901 PAGE 2 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM						Constellium ORDER NO.	CERTIFICATION			
5400182030						110-513141	"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."			
ALLOY	CLAD.	TEMPER	GAUGE	WIDTH	LENGTH		Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA			
7075	00	T651	1.78000	60.500	144.500		<i>Rodney J. Feltz</i> Rodney J. Feltz - Laboratory Manager			
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL										
CUSTOMER SPECIFICATION AMS-QQ-A-250/12										
PART NUMBER	BL NUMBER		DATE SHIPPED							
ALFLR00996	R02900		07/01/13							
WEIGHT SHIPPED	NO. OF PIECES	GOVT. CONTRACT NO.								
9,915	6									

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS											
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX										
ACTUAL CHEMICAL COMPOSITION																				
422831	C	SI= 0.05 CR= 0.20	FE= 0.09 ZN= 5.66	CU= 1.52 TI= 0.03	MN= 0.01 ZR= 0.01	MG= 2.45														
422841	C	SI= 0.05 CR= 0.20	FE= 0.09 ZN= 5.66	CU= 1.52 TI= 0.03	MN= 0.01 ZR= 0.01	MG= 2.45	OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER	OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER												
<i>13/09/28</i>																				
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS		
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH TOTAL MAX.	MAX	
SEE ACTUAL CHEMICAL COMPOSITION																				
ALUMINUM REMAINDER																				

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402702509

CstAr

CstOr 251921

Wgt.: 248.000 LB

Date 09/18/2013



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

4

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN
46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI
48086

COPPER&BR T84302 1800 INCLUSION SERIAL#: 20130820T84302 PAGE 1 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 5400189756				Constellium ORDER NO. 110-513231		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 4.03000	WIDTH 60.500	LENGTH 144.500		
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL						Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA	
CUSTOMER SPECIFICATION AMS-QQ-A-250/12						<i>Rodney J. Feltig</i> Rodney J. Feltig - Laboratory Manager	
PART NUMBER ALFLR00369	B/L NUMBER T84300			DATE SHIPPED 08/21/13			
WEIGHT SHIPPED 11,205	NO. OF PIECES 3	GOVT. CONTRACT NO.					

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS	
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX
438561	LT	2	***** T651 73.1	73.3	58.9	59.3	12.0	12.0		
All material contained in lot 438561 was cast and manufactured in the USA.										
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS										
ASTM B209-10, AMS 4045K ALSO MIN PROP: UTS=65, YS=52, ELONG=5%										
<i>mf 13/09/28</i>										

C HE M CO M P	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH TOTAL MAX.	MAX.
SEE ACTUAL CHEMICAL COMPOSITION																			

ALUMINUM REMAINDER

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402702497

CstAr

CstOr 251921

Wgt.: 184.000 LB

Date 09/19/2013



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN
46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI
48086

COPPER&BR T84302 1800 INCLUSION SERIAL#: 20130820T84302 PAGE 2 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 5400189756				Constellium ORDER NO. 110-513231		CERTIFICATION								
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 4.03000	WIDTH 60.500	LENGTH 144.500	"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."								
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL														
CUSTOMER SPECIFICATION AMS-QQ-A-250/12														
PART NUMBER ALFLR00369	B/L NUMBER T84300		DATE SHIPPED 08/21/13		Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA									
WEIGHT SHIPPED 11,205	NO. OF PIECES 3	GOVT. CONTRACT NO.												
<i>Rodney J. Feltig</i> Rodney J. Feltig - Laboratory Manager														

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS											
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX										
THIS MATERIAL IS OVER 4" IN THICKNESS AND THEREFORE EXCEEDS THE SIZE RANGE OF ALL APPLICABLE SPECIFICATIONS. SINCE THE MAJORITY OF METAL IS SUPPLIED WITHIN THE SIZE RANGE OF APPLICABLE SPECIFICATIONS, OUR CONCERN IS THAT MATERIAL MAY BE INADVERTENTLY USED IN APPLICATIONS WHICH REQUIRE CHARACTERISTICS EXPECTED OF THICKNESS 4" AND BELOW. FOR THE MATERIAL DESCRIBED, STRENGTH AND OTHER CHARACTERISTICS CAN BE EXPECTED TO DIFFER FROM THOSE TYPICAL OF MATERIAL IN THE NORMAL SIZE RANGE. THIS MATERIAL SHOULD NOT BE USED IN APPLICATIONS WHICH REQUIRE CHARACTERISTICS EXPECTED IN THE NORMAL SIZE RANGE; THEREFORE YOUR CAREFUL CONTROL IS NECESSARY TO PREVENT MISAPPLICATION.	<i>On 13/09/28</i>																			
SEE ACTUAL CHEMICAL COMPOSITION																				
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS		
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH TOTAL MAX.		
ALUMINUM REMAINDER																				

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402702497

CstAr

CstOr 251921

Wgt.: 184.000 LB

Date 09/19/2013



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN
46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI
48086

COPPER&BR T84302 1800 INCLUSION SERIAL#: 20130820T84302 PAGE 3 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 5400189756				Constellium ORDER NO. 110-513231		CERTIFICATION	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 4.03000	WIDTH 60.500	LENGTH 144.500	<p>"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."</p> <p>Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA</p> <p><i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager</p>	
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL							
CUSTOMER SPECIFICATION AMS-QQ-A-250/12							
PART NUMBER ALFLR00369		B/L NUMBER T84300		DATE SHIPPED 08/21/13			
WEIGHT SHIPPED 11,205		NO. OF PIECES 3		GOVT. CONTRACT NO.			

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.									
ACTUAL CHEMICAL COMPOSITION																			
438561	C	SI= 0.07 CR= 0.19 OTHERS-EACH: .05	FE= 0.13 ZN= 5.61 MAX. OTHERS TOTAL: .15	CU= 1.54 TI= 0.02 MAX. OTHERS TOTAL: .15	MN= 0.04 ZR= 0.01 MAX. AL	MG= 2.54 REMAINDER													
<i>mf 13/08/28</i>																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH TOTAL MAX.	
SEE ACTUAL CHEMICAL COMPOSITION											ALUMINUM REMAINDER								

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402702497

CstAr

CstOr 251921

Wgt.: 184.000 LB

Date 09/19/2013



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN
46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI
48086

COPPER&BR T84302 1800 INCLUSION SERIAL#: 20130820T84302 PAGE 4 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 5400189756				Constellium ORDER NO. 110-513231	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 4.03000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00369		B/L NUMBER T84300		DATE SHIPPED 08/21/13	
WEIGHT SHIPPED 11,205	NO. OF PIECES 3	GOVT. CONTRACT NO.			

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Rodney J. Feltig
 Rodney J. Feltig - Laboratory Manager

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402702497

CstAr

Cstor 251921

Wgt.: 184,000 LB

Date 09/19/2013

John R. Gambetti



INSPECTION CERTIFICATE № 13.10861

EN 10204 - 3.1



Certified by Russian Register

Consignee: KAMENSK URALSKY METALLURGICAL WORKS JOINT STOCK COMPANY
5 Zavodskaya St., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel (3439) 39 52 22 Fax (3439) 39 50 68

Consignee: Thyssen Krupp Materials NA				Quantity:	8											
				Net Weight, kg.	2070											
Contract number: N14326-S 8400177813-R01				Specification No:	N14326											
Article number: ALFLR03209				Lot No:	1											
Description of Goods	Plates							Requirements on the Product								
Grade of Product	Dimensions, inch/mm			Material conforms to quality of alloy												
	1.03"X48.5"X144.5" 26.160X1231.9X3670.3			7075 T651												
Product conforms to all requirements of ASTM-B209-10, AMS-QQ-A250/12AMS4045K. This product conforms to European Union RoHS Directive 2002/96/EC																
Mechanical Properties																
The Condition of Tested Standards	Lot Number	Card Number	Number of Tests	Tensile Strength		Yield Strength (0.2% offset)		Elongation, %	Hardness, HB							
				ksi	ksi	min	max			min	max					
Required				77.0		67.0		8.0								
	717842	12-1959	6	83.4	84.8	74.8	78.2	12.0	14.0							
Chemical Composition, %																
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Nickel Ni	Zinc Zn	Titanium Ti	Zirconium Zr						
Required	0.4	0.5	1.2-2.0	0.3	2.1-2.9	0.18-0.28		5.1-6.1	0.2							
Contents	0.04	0.16	1.3	0.07	2.4	0.19		5.8	0.08							
Element	Ti-Zr	Ni	Tin Sn	Bismuth Bi	Platinum Pb	Mn+Cr	Co	Other Elements		Al						
Each								Total								
Required	-	-	-	-	-	-	-	0.05	0.15	remainder						
Contents	-	-	-	-	-	-	-	0.05	0.15	remainder						
Other Tests																
Method	Macro-structure	Micro-structure	UT	Electro-conductivity	BCF	Content of 12 metals (%)	Mercury free 'Russia is country of metal and manufacture'									
Result	-	-	-	-	-	0.10										

Or behalf:

DAO KUMZ

Date:

13.04.13

Inspector:

G.A.Ostanina

Inspection Department Engineer

N.V. Alekhina



*On
Bogatov*

Bogatov



INSPECTION CERTIFICATE № 13.17959

EN 10204 - 3.1



Certified by Russian Register

6

Consigner: KAMENSK URALSKY METALLURGICAL WORKS JOINT STOCK COMPANY
5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: (3439) 39 52 22 Fax: (3439) 39 50 68

Consigner: KAMENSK URALSKY METALLURGICAL WORKS JOINT STOCK COMPANY 5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: (3439) 39 52 22 Fax: (3439) 39 50 68				Certified by Russian Register							
Consignee: Thyssen Krupp Materials NA				Quantity: 1							
Contract number: N14445-S 5400184357-R01				Net Weight, kg.: 2030							
Article number: ALFLR00645				Specification Nr.: N14445 Lot Nr.: 1 Package Nr.: 622153							
Description of Goods: Plates				Requirements on the Products:							
Grade of Product:		Dimensions, inch/mm:		Material conforms to quality of alloy: 7075 T651							
		6.03"X48.5"X144.5" 153.160X1231.9X3670.3		Product conforms to all requirements of: ASTM-B209-10,AMS-QQ-A250/12AMS4045K. This product conforms to European Union RoHS Directive 2002/95/EC							
Mechanical Properties											
The Condition of Tested Standards	Lot Number	Cast Number	Number of Tests	Tensile Strength		Yield Strength (0.2% offset)		Elongation, %		Hardness, HB	
				ksi	ksi	min	max	min	max	min	max
Required				-	-	-	-	-	-	-	-
	718076	20-5989	2	76.4	76.6	65.6	65.8	8.5	8.5		
Chemical Composition, %											
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Nickel Ni	Zinc Zn	Titanium Ti	Zirconium Zr	
Required Content	0.4 0.05	0.5 0.20-0.21	1.2-2.0 1.3	0.3 0.03	2.1-2.9 2.4	0.18-0.28 0.19	-	5.1-6.1 5.6	0.2 0.08	-	
Element	TH-Zr	Na	Tin Sn	Bismuth Bi	Plumbum Pb	Mn-Cr	Ca	Other Elements Each	Total	Al	
Required Content	-	-	-	-	-	-	-	0.05 0.05	0.15 0.15	remainder remainder	
Other Tests											
Method	Macro-structure	Micro-structure	UT	Electro-conductivity	SCF	Content H2 of metals cm3/100gr	Mercury - Free Russia is country of melt and manufacture				
Result	-	-	-	-	-	0.22					

On behalf:

OAO KUMZ

Date:

24.08.13

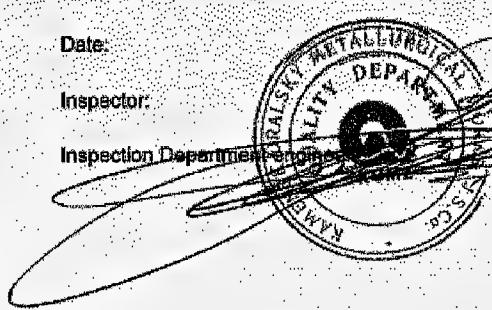
13/09/25

Inspector:

N.A. Hmylnina

Inspection Department Manager

N.V. Alekhina



Form No QAD/3-001, Revision 00

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402702485

CstAr

CstOr 251921

Wgt.: 1,113.000 LB

Date 09/18/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO21317

Purchase Order Date 9/12/2013

PO Print Date 9/13/2013

Page Number 1 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
06/30/13

Contact Name
Vendor Phone 905 669 9444
Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer	Chantal Lavoie
Customer POID	
Customer Tax #	10127-2607
Terms	Net 30
Currency	CAD
FOB	FCA - (Free Carrier)

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21317**

Purchase Order Date 9/12/2013

PO Print Date 9/13/2013

Page Number 2 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

W126981

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

4	M6061T6B2.000X02.250	6061-T6 Bar 2.00 x 2.25	9/18/2013	1.00 ✓ f 12/12	\$12.79	\$12.79
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AS ABOVE

Line Total: \$12.79

5	M6061T6B1.500X02.500	6061-T6 Bar 1.50 x 2.50	9/18/2013	12.00 ✓ f 1/3/18	\$8.39	\$100.70
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AS ABOVE

Line Total: \$100.70

6	M6061T6S.040	6061-T6 .040 Sheet	9/18/2013	192.00 ✓ sf 1/3/4/06	\$1.61	\$310.00
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MATERIAL: 6061-T6/T62 ALUMINUN SHEET AS PER
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR ASTM B209

Line Total: \$310.00

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21317**

Purchase Order Date 9/12/2013
PO Print Date 9/13/2013

Page Number 3 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444
Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

7 M7075T6B1.750X04.500 7075-T6 BAR 1.750" X 4.500" 9/18/2013 24.08 ✓ \$42.27 \$1,018.00
Yes f ✓
9/18/2013

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

Line Total: \$1,018.00
8 M7075T6B4.000X4.500 7075-T6 BAR 4.000' X 4.500" 9/18/2013 8.00 ✓ \$99.90 \$799.20
Yes f
9/18/2013

AS ABOVE

Line Total: \$799.20
9 M7075T6B5.000X1.000 7075-T6 BAR 5.000" X 1.000" 9/18/2013 60.21 ✓ \$27.57 \$1,660.00
Yes f
9/18/2013

AS ABOVE

✓ 13/4/25

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21317**

Purchase Order Date 9/12/2013

PO Print Date 9/13/2013

Page Number 4 of 4

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

				Line Total:	\$1,660.00
10	M7075T6B6.000X6.000	7075-T6 BAR 6.000' X 6.000" (order in billets)	9/18/2013	24.17 ✓	\$174.87 \$4,226.00
			Yes 9/18/2013	f	

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: PLEASE CUT TO SIZE: 40 PCS CUT AT 7.25" LONG

Line Total: \$4,226.00

PO Total: \$9,988.97

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO
PST# 6122-5207